



[Life Sciences and Biotechnology](#) > [Peptides / Proteins](#)

Search for **Technology**, **Researcher** or **Lab & Service**



 [Ask more Info](#)

 [Add to Briefcase](#)

 [Share](#)

10-2019-1235

BROAD-SPECTRUM METASTASIS SUPPRESSING COMPOUNDS IN HUMAN SOLID TUMORS

Despite recent advances in cancer therapy, still malignancy is responsible for 15% of human death. Among these patients having solid tumors, 90% die from metastatic disease. Thus, effective prevention and suppression of metastasis is still an elusive goal. The proposed compounds and/or their derivatives identify a potential novel therapy for a broad-spectrum of the major human solid tumors.

OUR SOLUTION

We have identified six compounds belonging to two chemical groups which inhibit at low concentration metastasis invasion and cell migration in culture without affecting cell proliferation. This was found in eight types of solid human cancers, out of the nine types tested. Currently we start to address the effect of these compounds in Patient Derived Xenografts (PDXs) in mice.

ADVANTAGES OVER EXISTING TECHNOLOGIES:

- Most current therapies for metastasis address already existing specific metastatic cells via cytotoxic compounds. Our approach tackles the metastasis process itself.
- Current metastatic therapies usually address single human metastasis type, whereas ours addresses at least 8 major solid human cancer types.
- Based upon the mechanism of action of several of our compounds, there is a good chance for their activity in 5-6 additional solid human cancers.

STATUS

- Six compounds inhibit at low concentration metastasis cell migration of tumor cell lines derived from 8 major solid human cancers.
- These compounds inhibit at this low concentration the cell invasion of the same tumor cell lines representing the 8 major solid human cancers.

• At the same concentration the compounds were not toxic to these vast arrays of tumor cell lines, nor affecting their cell proliferation during the 48 hours of these experiments in culture.

INTELLECTUAL PROPERTY

PCT was submitted in May 2022: BROAD-SPECTRUM METASTASIS SUPPRESSING COMPOUNDS, AND THERAPEUTIC USES THEREOF IN HUMAN TUMORS.

Associated Business Development manager



Tali Aloya, PhD

Vice President, Business Development, Life Sciences

+972.3.6405063

Contact

Researchers



Prof.

Canaani Dan

1

Technologies

More related technologies

Small Molecules

Therapeutic Targeting of CD45 by Novel Agents to Immunotherapy Non-Responders Tumors

Oncology / Cancer

Therapeutic Targeting of PD-1/PD-L1 blockade by Novel Small-molecule Inhibitors